



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Bachelor of Vocation (B.Voc.), 6th Semester
Branch: Production Technology
Subject Name: Production Engineer
Subject Code: 21160305

Type of course: Elective

Prerequisite: Manufacturing Process, Industrial Engineering.

Rationale: A Production Engineer is responsible for supervising production processes such as machining, fabrication, welding, surface finishing, assembly, etc. The individual supervises the whole production cycle from planning, resource management, production to review of the production processes to ensure adherence to applicable standards, regulations and organizational guidelines. The person supervises and assist various personnel involved in the production activities for ensuring smooth operations at the production facility and achieving the productions targets.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE (V)	PA (I)	
0	0	15	15	0	0	100	100	200

Sr. No.	Topic	No. of Hours
1	Health and safety practices at work Introduction to the role of a production engineer, health and safety practices, demonstrate ways to maintain personal health and safety, describe the process of assisting in hazard management, explain how to check the first aid box, firefighting and safety equipment, describe the process of assisting in waste management, explain the importance of following the fire safety guidelines, explain the importance of following the emergency and first-aid procedures, demonstrate the process of carrying out relevant documentation and review	40
2	Coordinate with co-workers to achieve work efficiency Demonstrate ways to work and communicate effectively with co-workers, discuss ways to promote diversity and inclusion at the workplace.	40
3	Plan and manage the production process Describe the process of planning and preparing for production, describe the process of managing the production process, demonstrate the process of carrying out documentation and data review, describe the process of assisting in improving production and productivity, explain the importance of using resources optimally.	80
4	Employability Skills Discuss about Employability Skills in meeting the job requirements, demonstrate career development & goal setting skills, practice basic communication skills.	40
	Total	200



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Course Outcome:

Sr. No.	CO statement	Marks % weightage
CO 1	To understand the importance of following the health and safety practices at work.	30
CO 2	To demonstrate ways to coordinate with co-workers to achieve work efficiency.	40
CO 3	To understand the process of planning and managing the production process.	30

Reference:

- 1) Production Engineer, QP Code: CSC/Q1201 (NSQF Level-5)

List of Open Source Software/learning website:

<https://nptel.ac.in>